JSC Employees Receive Inventions and Contribution Board Awards

October 23, 2012

Several JSC employees received Inventions and Contributions Board Awards. During a special Space Act Awards Program emceed by Tech Transfer and Commercialization Manager David Leestma, the awards were presented to the recipients by Center Director, Mike Coats in the Building 30 Auditorium.

These awards are granted by the NASA Inventions and Contributions Board to recognize outstanding scientific or technical contributions. The Space Act Awards Program provides recognition and monetary awards for inventions and other scientific and technical contributions that have helped to achieve NASA's aeronautical, commercialization and space goals. They also are intended to stimulate and encourage the creation and reporting of similar contributions in the future.

We hope you will review the full list of JSC recipient names and new technologies:

PATENT APPLICATION AWARDS

Pyrometer Asia N. Quince Robotic Finger Assembly Actuator and Electronics Packaging for Extrinsic Humanoid Hand Sensing the Tendon Tension through the Conduit Reaction Forces Torque Control of Under-actuated Tendon-Driven Robotic Fingers Myron A. Diftler Actuator and Electronics Packaging for Extrinsic humanoid Hand Sensing the Tendon Tension through the Conduit Reaction Force, Robotic Finger Assembly Bidirectional Tendon Terminator Lyndon B. J. Bridgwater

Nanoencapsulated Aerogels Produced by Monomer Vapor Deposition and Polymerization Thomas A. Sullivan

Wearable for Acquisition of Resting Multi-Lead ECG Todd T. Schlegel

SOFTWARE RELEASE AWARDS

Digital Television Ground Equipment Software

Glen Steele

International Space Station (ISS) Crew Health Care System (CHeCS) Payload Multiplexer/Demultiplexer (MDM0 Simulator

David C. Swartwout Lorraine Williams

Snewt Software for Hypersonic Aerodynamics Estimation

Katie Boyles Phil C. Stuart

BUMPER-CEV (version 1.71) Micrometeoroid and Orbital Debris Risk Assessment Code, Rev. A

Eric. Lewis Christiansen Dana McNeill Lear

TECH BRIEF AWARDS

Sheet Membrane Spacesuite Water Membrane Evaporator (SWME)

Grant C. Bue

High Temperature Sealant Compound for use in the Vacuum and Temperatures found in Earth-Orbit

Charles Camarda
Don Petitt

Flexible Plug Repair for Shuttle Wing Leading Edge

Charles Camarda

Optimal Multi-Gravity, Multi-Spacecraft Trajectory Optimization and Design System – Copernicus

Gerald Condon

Development of Code RITRACKS (Relativistic Ion Tracks)

Francis A. Cucinotta

GCR Event-Based Risk Model (GERM) Code

Francis A. Cucinotta

Motion Imagery and Robotics Application (MIRA): Standards based Robotics

Thomas E. Diegelman

Glovebox for GeoLab Subsystem in HDU1-PEM

Cynthia A. Evans

Debris Examination Using Ballistic and radar Integrated Software (DEBRIS)

Anthony D. Griffith

Dust Distributor

Kathryn M. Hulbert

Space to Space Communications Systems Software Defined Radio Prototype

Cindy Jih

Trick Simulation Environment 07 release

Alexander S. Lin

Pneumatic system for concentration of Micrometer-Size Lunar Soil

David S. McKay

Saliva Preservative for Diagnostic Purposes

Duane L. Pierson

Linked-List Based Multibody Dynamics (MBDyn) Engine

Leslie J. Quiocho

Fuel Cell/Electrochemical Cell Voltage Monitor with Isolated Communication and Direct In-Stack Power Connections

Arturo Vasquez

Pressure Regulator with Internal Ejector Circulation Pump, Flow and Pressure Measurement Porting, and Fuel cell System Integration Options

Arturo Vasquez

Improving Balance Function Using Low Levels of Electrical Stimulation of the Balance Organs

Jacob Bloomberg

Millard F. Reschke

And Scott J. Wood

Measurement Techniques for Clock Jitter

Chatwin A. Lansdowne

Adam M. Schlesinger

Security Data Warehouse Application

Steven Gonzalez

Lynn Vernon

Robert Hennan

Thermodynamic Vent System (TVS) for an On Orbit Cryogenic Reaction Control Engine (RCE)

Sam Flores

Eric A. Hurlbert

Rafael Jimenez

Wheel-Based ice Sensor

G. Dickey Arndt

Patrick Fink

Phong H. Ngo

Basic Operational Robotics Instructional System (BORIS)

Brian Todd

Space Act Awards

Development of Code RITRACKS (Relativistic Ion Tracks), Honorable Mention for Software of the Year

Francis A. Cucinotta

Impact Detection System

Eric L. Christiansen

Deployable Fresnel Rings

Andrew W. Chu
Patrick W. Fink
Timothy F. Kennedy
Gregory Y. Lin

Low Impact Docking System (LIDS) A.k.a., International Berthing Docking Mechanism (IBDM)

James L. Lewis Brandan Robertson

Flash Infrared (IR) Thermography Contrast Computer Simulation and Data Analysis Software Ajay M. Koshti

Solar-Powered Refrigeration System, Invention of the Year

Michael K. Ewert

Methods for Growing Tissue-Like 3D Assemblies (TLA) of Human Broncho-Epithelial Cells Thomas J. Goodwin

Robonaut 2 Software, Software of the Year Runner-up (2011)

Philip Strawser Scott Askew